



2.30” (60.96mm)Oval 5.00mm 8*8 Lamp Dot Matrix Displays

Electro/Optical Characteristics If=20mA Ta=25°C

Part Number	Emitting Color	Peak Wavelength	Forward Voltage V _F /Dot		Luminous Intensity I _v /Dot		Viewing Angle
			Typ.	Max.	Min.	Typ.	2 θ 1/2
NFML-23884BUE-546DH	AlGaInP Ultra Orange	632	2.00	2.50	200.00	300.00	110
NFML-23884BPG-546DH	InGaN Pure Green	515	3.30	3.80	420.00	630.00	110
NFML-23884BUY-546DH	AlGaInP Ultra Yellow	590	2.00	2.50	200.00	300.00	110
NFML-23884BUW-546CH	InGaN Ultra White	X-0.31/Y-0.31	3.30	3.80	1500.00	2500.00	80
NFML-23884BUB-546DH	InGaN Ultra Blue	470	3.30	3.80	300.00	550.00	110
Units		nm	V		mcd		degree

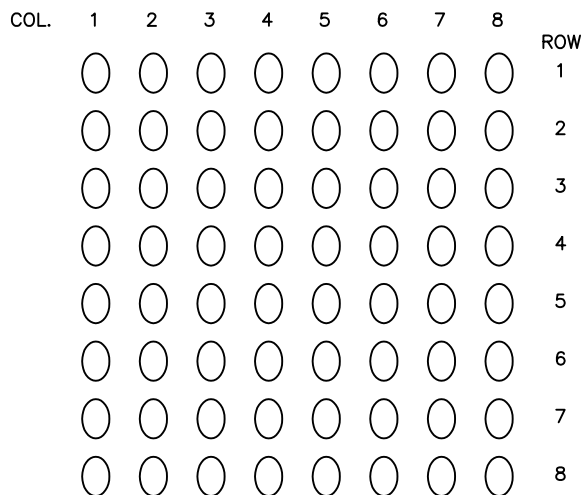
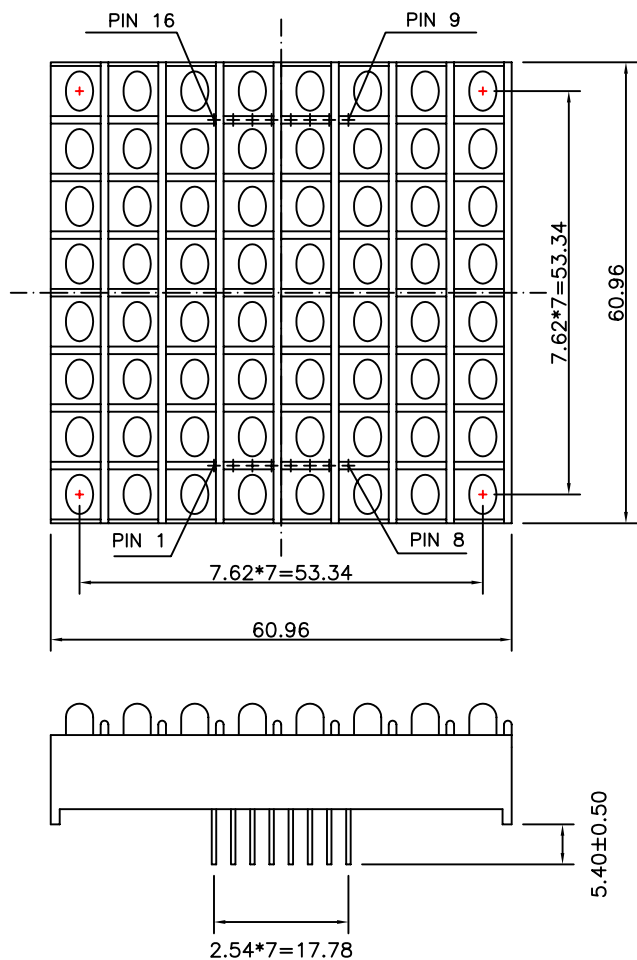
Maximum Ratings Ta=25°C (Derate above 25°C)

Characteristic	Test Condition	Symbol	UHR	UE	YO	UY	UG	PG	UB	UW	Units
Pulse Forward Current Per Dot	1/10 duty cycle 0.1ms Pulse width	I _{FP}	100	100	100	100	100	100	100	100	mA
DC Forward Current Per Dot		I _F	30	30	30	30	30	30	30	30	mA
Reverse Current Per Dot	V _R =5V	I _R	10	10	10	10	10	10	10	10	μA
Power Dissipation		P _D	65*64	65*64	65*64	65*64	75*64	110*64	120*64	120*64	mW
Operating Temperature		T _{OPR}	-40 to +80								°C
Storage Temperature		T _{TSG}	-40 to +85								°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260								°C



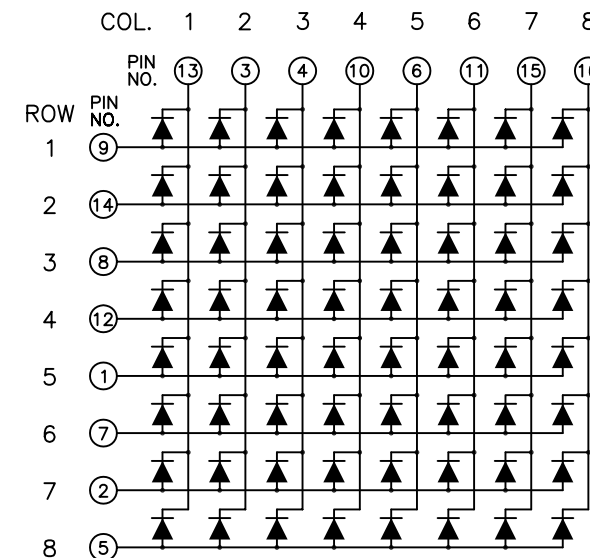
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

Row Anode
Column Cathode
NFML-23884Bx



Tolerance $\pm 0.25\text{mm}$ unless stated

Checked

Chen N.H.

Approved

Jason Chen

Date

Mar/12/2007

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